

Number Sense Review

Key
Name _____

Per _____

Problem Solving

Add, Subtract, Multiply, or Divide.

1.) $-3 + 4 = \boxed{-1}$

2.) $6 + (+3) = \boxed{9}$

3.) $(9)(-11) = \boxed{-99}$ multiply

4.) $-12 + 6 = \boxed{-6}$

5.) $\frac{72}{-8} = \boxed{-9}$

6.) $\frac{1}{7} + \left(\frac{-8}{7}\right) = \frac{-7}{7} = \boxed{-1}$

7.) $1\frac{2}{5} + 5\frac{3}{10}$

$1 + 5 = 6$ $\frac{2}{5} + \frac{3}{10}$

$\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$

$\boxed{6\frac{7}{10}}$

8.) $33.6 - 2.8$

$\begin{array}{r} 33.6 \\ - 2.8 \\ \hline 30.8 \end{array}$

$\boxed{30.8}$

9.) $|11 - 4 - 10|$

$|7 - 10|$

$|-3|$

$\boxed{3}$

10.) $\frac{5}{8} \cdot \frac{3}{4} = \boxed{\frac{15}{32}}$

11.) $\frac{1}{6} \div \frac{2}{3}$

$\frac{1}{6} \cdot \frac{3}{2} = \frac{3}{12} = \boxed{\frac{1}{4}}$

★ Flip and Multiply

Simplify each expression using the **order of operations (GEMS)**.

12.) $7 + 5 \cdot 2 + |-33|$

$7 + 5 \cdot 2 + 33$

$7 + 10 + 33$

$17 + 33$

$\boxed{50}$

13.) $-2(3 + 5) - 15 \div 3$

$-2(8) - 15 \div 3$

$-16 - 5$

$\boxed{-21}$

14.) $(-3)^2 + (1 + 3) - (-4)$

$(-3)^2 + 4 - (-4)$

$9 + 4 - (-4)$

$13 + (+4)$

$\boxed{17}$

Reasoning

15.) Insert parenthesis to make this equation true. In other words, what do I need to do **first**?

$(25 - 15) \cdot 6 + 4 = 64$

Show that your grouping symbols make this equation work.

$10 \cdot 6 + 4$

$60 + 4$

64

16.) What is the difference between $(-3)^2$ and -3^2 ?

$(-3)(-3) = 9$ $-3 \cdot 3 = -(3 \cdot 3) = -9$

In the second, only the 3 is squared.

In the 1st, you have to include the negative with the 3.